

Memorandum



Date: July 6, 2018

To: City of Wichita

From: Burns & McDonnell

Subject: Master Plan Cover Letter

Attached are portions of the 2017 Water Utility Master Plan, including sections describing the need for a new water treatment plant (WTP) and its capacity. The Water Demands chapter of the master plan describes forecasted water demands and helps frame the overall needs of the utility. The recommended capacity in the master plan, however, differs from the current plan described in this Letter of Interest (LOI). The purpose of this memorandum is to summarize the water demands and describe why there is a difference between the two capacities.

Chapter 3 of the attached master plan includes water demand projections throughout the planning period, including average and maximum day demand projections through 2045. As summarized on page 3-8, the projected max day demand through 2045 is 128 MGD. Therefore, 140 MGD (total), 120 MGD (firm capacity) generally aligns with projected future max day demands and provides the greatest degree of flexibility to manage risk and define future corrective measures at the existing Main Water Treatment Plant (MWTP).

Section 8.2.10 of the attached master plan describes the need for a new WTP. Based on the previous conditions assessments performed at the MWTP, it is evident that the facility will either require extensive rehabilitation or complete replacement to reliably produce water for the City of Wichita. As the MWTP is the City's only water treatment plant, a significant failure within that facility could result in complete disruption to the City's water supply. Thus, a proactive risk mitigation plan is essential.

The master plan did not address the current plan of decommissioning the MWTP for a period of thorough assessment and planning after construction and startup of the new NWWTF. Since this was not contemplated, the master plan includes modifications to the MWTP, resulting in a lower capacity at the NWWTF.

Due to the conditions assessment indicating the need for a new facility, 140 MGD generally aligning with the latest demand assessment, the current plan is to construct a 140 MGD (total), 120 MGD (firm capacity) NWWTF.